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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-11-20-42 **Date: 12/10/2021**
: Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
: Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
-ference : EE(Project)/Ynk Zone/WO/163/2020-21
t : 07-10-21
: Coping Concrete for SSM - (Palanahalli Doddamuniyappa Layout)
Size : 150X150X150 mm
Age : M20 / 7 Days Compressive Strength
BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
: 12/10/2021

tification Mark	**Grade of concrete**	**Date of Casting**	**Date of Testing**	**Dimension of the Specimen** (mm)	**Cross sectional area** (Sq.mm)	**Weight of the sample** (kg)	**Failure Load** (KN)	**Compressive strength** (N/mm^2)	**Average Compressive Strength** (N/mm^2)
Concrete for SSM	M20	05/10/2021	12/10/2021	149.73 X 150.05 X 150.97	22468	**8.008**	406.1	18.1	18.2
Concrete for SSM	M20	05/10/2021	12/10/2021	151.14 X 150.93 X 149.28	22812	**8.687**	411.2	18.0	
g Concrete for SSM	M20	05/10/2021	12/10/2021	151.05 X 149.74 X 149.38	22619	**8.572**	416.1	18.4	

tained are satisfactory as per standard requirements.

Asst. Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL P. Sig..... Date.....

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

ID	:	CP-2021-11-20-42
ct Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
cy	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
omer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
of Receipt	:	07-10-21
omer ID	:	Coping Concrete for SSM - (Palanahalli Doddamuniyappa Layout)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	02/11/2021

Date: 02/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Coping Concrete for SSM	M20	05/10/2021	02/11/2021	149.59 X 150.19 X 151.22	22467	8.246	522.3	23.2	23.0
Coping Concrete for SSM	M20	05/10/2021	02/11/2021	150.75 X 150.11 X 151.12	22628	8.974	506.8	22.4	
Coping Concrete for SSM	M20	05/10/2021	02/11/2021	151.61 X 151.22 X 150.01	22927	8.116	535.2	23.3	

he results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yeshwanthpura Zone
BBMP, Bangalore - 92

CIVIL PRO Sig..... Date.....

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-11-20-42 **Date: 18/10/2021**

me : Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05

: Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97

Reference : EE(Project)/Ynk Zone/WO/163/2020-21

eipt : 13-10-21

D : Plinth Beam Concrete - (Palanahalli Doddamuniyappa Layout)

pe /Size : 150X150X150 mm

de/Age : M20 / 7 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Plinth Beam Concrete	M20	11/10/2021	18/10/2021	151.97 X 150.33 X 151.63	22845	8.008	414.7	18.2	18.3
Plinth Beam Concrete	M20	11/10/2021	18/10/2021	151.61 X 149.05 X 150.86	22597	8.687	413.0	18.3	
Plinth Beam Concrete	M20	11/10/2021	18/10/2021	150.07 X 151.44 X 150.06	22727	8.572	420.1	18.5	

obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-11-20-42 **Date: 08/11/2021**

me : Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05

: Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97

's Reference : EE(Project)/Ynk Zone/WO/163/2020-21

eceipt : 13-10-21

ID : Plinth Beam Concrete - (Palanahalli Doddamuniyappa Layout)

ype /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 08/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Plinth Beam Concrete	M20	11/10/2021	08/11/2021	151.50 X 149.97 X 149.78	22721	8.246	526.7	23.2	23.0
Plinth Beam Concrete	M20	11/10/2021	08/11/2021	151.06 X 149.80 X 149.05	22629	8.974	508.1	22.5	
Plinth Beam Concrete	M20	11/10/2021	08/11/2021	150.14 X 151.31 X 149.25	22718	8.116	528.2	23.2	

ts obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-11-20-42
Project Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
Agency	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
Date of Receipt	:	21-10-21
Customer ID	:	Lintel Beam Concrete - (Palanahalli Doddamuniyappa Layout)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/10/2021

Date: 26/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Lintel Beam Concrete	M20	19/10/2021	26/10/2021	150.76 X 150.16 X 151.00	22637	8.008	415.5	18.4	18.4
	Lintel Beam Concrete	M20	19/10/2021	26/10/2021	150.36 X 149.69 X 151.66	22508	8.687	410.2	18.2	
	Lintel Beam Concrete	M20	19/10/2021	26/10/2021	151.83 X 151.15 X 151.60	22950	8.572	427.9	18.6	

The results obtained are satisfactory as per standard requirements.

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Project Division
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Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Job ID	:	CP/2021-11/30-43
Work Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.68
Client	:	Sri Santhosh Kumar K R , #64, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-92
Engineer's Reference	:	EE(Project)/Yak Zone/WO/183/2020-21
Date of Receipt	:	31-10-21
Specimen ID	:	Lintel Beam Concrete - (Palanahalli Doddamoolyappa Layout)
Mark Type /Size	:	150X150X150 mm
Mark grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 : 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Beam Concrete	M30	19/10/2021	16/11/2021	149.06 X 149.39 X 150.76	22368	8.346	527.1	23.7	23.5
2	Lintel Beam Concrete	M30	19/10/2021	16/11/2021	150.71 X 150.42 X 149.86	22669	8.974	519.7	22.9	
3	Lintel Beam Concrete	M30	19/10/2021	16/11/2021	149.88 X 149.46 X 151.61	22401	8.116	537.3	24.0	

The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

rID	:	CP-2021-11-20-42
ject Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
ncy	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
tomer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
e of Receipt	:	30-10-21
tomer ID	:	Step Concrete - (Palanahalli Doddamuniyappa Layout)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	04/11/2021

Date: 04/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Entrance step Concrete	M20	28/10/2021	04/11/2021	150.49 X 149.31 X 149.80	22471	8.008	410.5	18.3	18.7
Entrance step Concrete	M20	28/10/2021	04/11/2021	149.76 X 150.36 X 149.47	22518	8.687	424.4	18.8	
Entrance step Concrete	M20	28/10/2021	04/11/2021	150.38 X 150.14 X 150.98	22578	8.572	428.9	19.0	

e results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/11/2021

Lab ID	:	CP-2021-11-20-42
Project Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
Address	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
Date of Receipt	:	30-10-21
Customer ID	:	Step Concrete - (Palanahalli Doddamuniyappa Layout)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Entrance step Concrete	M20	28/10/2021	25/11/2021	151.46 X 149.43 X 151.09	22633	8.246	526.4	23.3	23.3
Entrance step Concrete	M20	28/10/2021	25/11/2021	149.34 X 149.01 X 151.54	22254	8.974	501.6	22.5	
Entrance step Concrete	M20	28/10/2021	25/11/2021	151.59 X 151.20 X 151.00	22919	8.116	549.8	24.0	

The results obtained are satisfactory as per standard requirements

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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TEST RESULTES ON STRUCTURAL STEEL

D	:	CP-2021-11-20-42 Date: 24-04-21
ct Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
y	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
mer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
f Receipt	:	23-04-21
Description of le*	:	Purlin - SHS 120x 60 x3.2th (Shivaram karanth nagar)
ence to BIS codes	:	IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.
f testing	:	23-04-21

Description	Result	Required as per as IS Code 2062: 2011	Remarks
Weight/Meter	8.51 Kg /m	–	
Thickness	3.2 mm	–	
Yeild Stress	275 N/mm^2	240 N/mm^2	
Tensile Strength	441 N/mm^2	410 N/mm^2	
Elongation Percentage	19%	Min 15%	
Bend Test	Satisfactory	–	

results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro
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Quality Manager

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Certificate No.: TC-5548

TEST RESULTES ON STRUCTURAL STEEL

ID : CP-2021-11-20-42
Date: 24-04-21

ject Name : Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05

ncy : Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97

tomer's Reference : EE(Project)/Ynk Zone/WO/163/2020-21

e of Receipt : 23-04-21

e/ Description of iple* : Purlin - SHS 120x 60 x3.2th (Srinivaspura Sai Baba Temple Road)

erence to BIS codes : IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.

e of testing : 23-04-21

SO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
	Weight/Meter	8.51 Kg /m	–	
2	Thickness	3.2 mm	–	
3	Yeild Stress	274 N/mm^2	240 N/mm^2	
4	Tensile Strength	442 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

he results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST RESULTES ON STRUCTURAL STEEL

ab ID : CP-2021-11-20-42
oject Name : Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05 Date: 24-04-21
gency : Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
stomer's Reference : EE(Project)/Ynk Zone/WO/163/2020-21
te of Receipt : 23-04-21
pe/ Description of mple* : Purlin - SHS 120x 60 x3.2th (Someshwara layout Kattigen halli)
ference to BIS codes : IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.
te of testing : 23-04-21

NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	8.51 Kg /m	-	
2	Thickness	3.2 mm	-	
3	Yeild Stress	274.5 N/mm^2	240 N/mm^2	
4	Tensile Strength	441 N/mm^2	410 N/mm^2	
5	Elongation Percentage	19%	Min 15%	
6	Bend Test	Satisfactory	-	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
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CIVIL Pro Sig Date

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TEST RESULTES ON STRUCTURAL STEEL

D	:	CP-2021-11-20-42 Date: 24-04-21
ct Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
y	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
mer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
f Receipt	:	23-04-21
Description of le*	:	Purlin - SHS 120x 60 x3.2th (Saptagiri Layout Kattigenhalli)
ence to BIS codes	:	IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.
f testing	:	23-04-21

Description	Result	Required as per as IS Code 2062: 2011	Remarks
Weight/Meter	8.51 Kg /m	–	
Thickness	3.2 mm	–	
Yeild Stress	275.5 N/mm^2	240 N/mm^2	
Tensile Strength	441 N/mm^2	410 N/mm^2	
Elongation Percentage	17%	Min 15%	
Bend Test	Satisfactory	–	

results obtained are satisfactory as per standard requirements.

Asst. Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig Date

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TEST RESULTES ON STRUCTURAL STEEL

D	: CP-2021-11-20-42	Date: 24-04-21
ct Name	: Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05	
y	: Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97	
mer's Reference	: EE(Project)/Ynk Zone/WO/163/2020-21	
of Receipt	: 23-04-21	
Description of le*	: Purlin - SHS 120x 60 x3.2th (Muneshwara Layout Kattigenhalli)	
ence to BIS codes	: IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.	
of testing	: 23-04-21	

Description	Result	Required as per as IS Code 2062: 2011	Remarks
Weight/Meter	8.51 Kg /m	–	
Thickness	3.2 mm	–	
Yeild Stress	272 N/mm^2	240 N/mm^2	
Tensile Strength	442 N/mm^2	410 N/mm^2	
Elongation Percentage	17%	Min 15%	
Bend Test	Satisfactory	–	

results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date.....

FOR CIVIL Pro
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST RESULTES ON STRUCTURAL STEEL

ID	:	CP-2021-11-20-42 Date: 24-04-21
ct Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
cy	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
omer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
of Receipt	:	23-04-21
/ Description of ple*	:	Purlin - SHS 120x 60 x3.2th (Defence Colony Vinayak Nagara)
rence to BIS codes	:	IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.
of testing	:	23-04-21

	Description	Result	Required as per as IS Code 2062: 2011	Remarks
	Weight/Meter	8.51 Kg /m	–	
	Thickness	3.2 mm	–	
	Yeild Stress	274 N/mm^2	240 N/mm^2	
	Tensile Strength	441.5 N/mm^2	410 N/mm^2	
	Elongation Percentage	18%	Min 15%	
	Bend Test	Satisfactory	–	

- results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTES ON STRUCTURAL STEEL

b ID	:	CP-2021-11-20-42
ject Name	:	Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05
ency	:	Sri.Santhosh Kumar K R , #04, Samrudhi A V R Block, 1st A main, Virupakshapura, Bangalore-97
stomer's Reference	:	EE(Project)/Ynk Zone/WO/163/2020-21
te of Receipt	:	23-04-21
pe/ Description of mple*	:	Purlin - SHS 120x 60 x3.2th (Palanahalli Doddamuniyappa Layout)
ference to BIS codes	:	IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.
te of testing	:	23-04-21

Date: 24-04-21

NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	8.51 Kg /m	–	
2	Thickness	3.2 mm	–	
3	Yeild Stress	274 N/mm^2	240 N/mm^2	
4	Tensile Strength	443 N/mm^2	410 N/mm^2	
5	Elongation Percentage	17%	Min 15%	
6	Bend Test	Satisfactory	–	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro
Sig.....
Date.....
BANGALORE

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